

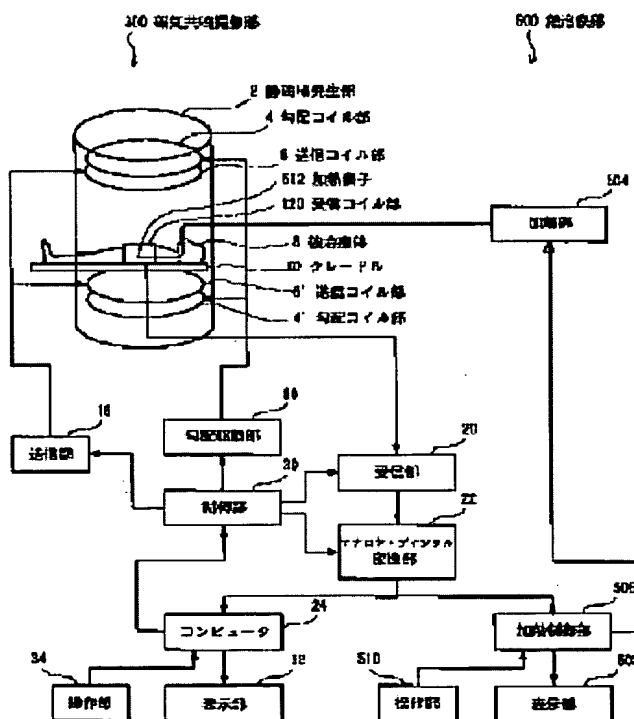
# METHOD AND DEVICE FOR CONTROLLING THERMOTHERAPY AND METHOD AND DEVICE FOR DISPLAYING HEAT DISTRIBUTION

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## Abstract of JP2000300591

**PROBLEM TO BE SOLVED:** To automate heating control by generating an isotherm on the basis of a temperature distribution image of a prescribed site subjected to magnetic resonance imaging and changing the amount of heat supplied when the isotherm touches a treatment boundary set in a tomogram in controlling a heat treatment device that supplies treatment heat to a prescribed site of a patient. **SOLUTION:** Output data from a magnetic resonance imaging section 300 through an A/D conversion section 22 are input to a heating control section 506 to generate a tomogram on the basis of full-view gradient encoder data. On the basis of a temperature distribution image of a prescribed site obtained by magnetic resonance imaging, an isotherm of 60 to 65 deg.C for example is obtained and the isotherm is superimposed on the tomogram and displayed on a separate screen of a display section 508 and then on the display section 508. When a treatment isotherm as a small circle surrounding the center of a treatment range is inside a temperature monitoring line, initial heating is performed by a heating section 504. However, when the circle of the isotherm expands and touches the temperature monitoring line, the heating section 504 is controlled so as to reduce a heating output.



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